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The LHC Integrated Library System, Version 1.0

by

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The Lister Hill Center Integrated Library System (ILS), Version 1.0, is now available through the National Technical Information Service** and operational at the Army Library, Pentagon. The development by NLM of a minicomputer-based ILS was previously described in the January 1980 issue of the *News*. This article briefly describes the features available in Version 1.0 as well as some implementation costs and future planned features.

ILS Version 1.0

The basic capabilities available in the ILS Version 1.0 include:

- Master Bibliographic File (MBF)
- Circulation
- Check-in

The following comments are intended to complement the overview of the subsystem features presented in the earlier *News* article.

1. *Master Bibliographic File.* Version 1.0 allows each library to define which data elements (tags and subfields) of a MARC-compatible bibliographic record it wishes to store locally. The capability to create a master file using data from other bibliographic source tapes such as LC, OCLC, Blackwell North America, etc., is also provided.

2. *The Circulation System.* The circulation subsystem includes bar code or manual CRT check-in/check-out capabilities. Both patrons and items can be identified by a wide range of entry points, including identification (ID) number, personal name (author or patron), call number, title, etc. The patron registration function in Version 1.0 contains registration parameters used at the Army Library, Pentagon. A generalized capability for defining patron registration parameters is planned for the future. While Version 1.0 functions only with HP 2600-series-compatible and OMRON computer terminals, the terminal control subsystem is table-driven and, hence, extension for use with other terminals should present minimum difficulties.

3. *Serials Check-in.* The basic serials check-in allows the local creation of bar codes directly from the MBF, including three lines of human-readable information, as well as the production

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of routing slips from an inexpensive printer attached to the CRT terminal. Hence, the MBF is updated upon check-in and the serial issue is immediately available for circulation.

Certain features identified within the internal documentation are not included on the present release. These include ILL, PULL, MAIL-OUT, RESERVE, NOTIFY RESERVE, JOB QUEUE, PRINT QUEU, and Reports. These items will be provided in the next release of the ILS, and many are currently operational at the Army Library, Pentagon.

Documentation

The initial release of ILS contains extensive documentation on the system tape which may be accessed online at the terminal or printed offline at a line printer. This documentation includes: user documentation for all circulation subsystem functions and general functions used system-wide, global (or file) descriptions, and detailed program descriptions including documentation on all system-wide variables. The program documentation includes the name of the MIIS program, a short description, its purpose, the variables referenced, the variables altered, etc., as well as a listing of the program itself.

Accompanying the NTIS tapes are two hard copy documents (1,2) containing information on the creation of the Master Bibliographic File. These documents may also be purchased separately. One document contains information needed to create the local MBF file. The profile establishes the tags and subfield codes selected by the local institution which will ultimately make up the bibliographic data base at the local site. The other document gives the user a global view of how to build selection strategies for extracting bibliographic data from magnetic tapes from virtually any MARC source—OCLC, LC, etc.

A bibliography of other ILS documentation may be obtained upon request from the authors.

Implementation

The ILS is capable of operating on Digital Equipment Corporation's PDP/11 series computers (including the LSI 11/23 microcomputer), the IBM Series 1 and the Data General Eclipse series computers, under the standard MIIS operating system supplied by Meditech, Inc. of Cambridge, Massachusetts. It is the operating system supplied by Meditech which permits the ILS to execute on this broad spectrum of hardware. Therefore, to install ILS requires the acquisition of the appropriate hardware configuration and the Meditech standard MIIS operating system.

Costs

ILS Version 1.0 may be obtained through the National Technical Information Service for a licensing fee of $2,000. While ILS may be implemented on computer equipment costing as little as $25,000, equipment for a medium-sized library may cost $70,000 or more. There are many other costs associated with the installation of a library automation capability including those for the MIIS operating system, facility preparation, software changes and maintenance, supplies, and specially trained personnel. A more detailed discussion of these costs may be obtained by contacting the authors.

Future ILS Developments

In addition to completing the items identified in the section on ILS Version 1.0, Circulation Subsystem, present efforts are directed toward implementing authority files and online catalog access for the reference librarian and patron. The creation of MARC-compatible authority files for names, subjects, and series is an integral part of the planned search facility for the online catalog access. It is planned to have these features released by December 1980.

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Other planned versions of Release 1 include reserve book function, multi-department (institution) function, and generalized patron search facility. Plans for Release 2 include the acquisitions and cataloging subsystems.

References

1. King, Susan. *A User's Guide to Maintaining the Master Bibliographic File of the ILS.* Mitre Corp., April 1980; issued as a Lister Hill Center Contractor Report CR 80-01, July 1980; available from NTIS for $7—Accession Number PB80-202674.

2. Anderson, Sandy E. *A Guide to Using the Bibliographic Features of the ILS.* Mitre Corp., May 1980; issued as a Lister Hill Center Contractor Report CR 80-02, July 1980; available from NTIS for $6—Accession Number PB80-202666.

Historical Acquisitions

Among the works acquired recently for the Library's historical collections was an edition of Galen's *De ossibus*, translated by Ferdinando Balami and published in Lyons in 1535. Although the text of this translation was previously published in Rome the same year, this edition includes the first printing of two skeletal figures demonstrating the state of anatomical art just prior to the publication of Vesalius's *De humani corporis fabrica* (1543). According to Harvey Cushing, they "show some obvious anatomical faults.... Yet they are if anything better balanced than Calcar's figures" in Vesalius's *Tabulae anatomicae sex* (1538). This edition, which is quite scarce (there is no copy listed in the *National Union Catalog*), thus represents a significant addition to the Library's collection of early works on anatomy.

Other important works acquired recently by the History of Medicine Division (HMD) include:

Francis Bacon, *The historie of life and death* (London, 1638; Gibson 153). This well known work by the promoter of "Baconian" philosophy appeared in two different English translations that year; the Library now has both.

Hendrik van Deventer, *Manuale operatien* (The Hague, 1701). This is an important work in the history of obstetrics: the first edition in Latin, which appeared the same year as this first Dutch edition, is Garrison-Morton No. 6253. No copy of the Dutch version is listed in the *National Union Catalog.*

Diodorus Euchyon, pseud., *De polychymia libri quatuor* (1567). This very rare work on early chemistry has considerable pharmaceutical content also. It has often been attributed to Caspar Wolf of Zurich, who is known chiefly in the HMD catalog as the editor of several of Conrad Gesner's works.

Jean Fernel, *Consiliorum liber* (Paris, 1585). Fernel was a leading 16th century physician, the subject of a biography by Sir Charles Sherrington. This is the third printing of the work and complements the Library's holdings of other editions.

Thomas Willis, *Dissertation sur les urines* (2d ed., Paris, 1687). Although Willis is best known for his work on the anatomy of the brain ("circle of Willis"),he wrote much else in medicine. This work on examination of urines supplements our copy of the first edition, 1683. The only other copy in the U.S. listed in the *National Union Catalog* is in California.

John Walker, *Fragments of letters and other papers* (London, 1802), is of interest to NLM chiefly for containing a passage from one of Jenner's works and some account of the author's early work in promoting vaccination.

MeSH Publications from NTIS

In addition to the regular *Medical Subject Headings* published as part two of the January issue of *Index Medicus*, the Library also produces MeSH tools designed for indexers, catalogers, and online searchers. These annual publications, two of which are listed below, are sold by the National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161.

- *Medical Subject Headings, Annotated Alphabetic List, 1981.* PB80-203342. $15 ($3.50 microfiche). Includes MeSH terms, cross references, geographic headings, non-MeSH terms, check tags, tree numbers, and notes for online users, catalogers, and indexers.

- *Medical Subject Headings, Tree Structures, 1981.* PB80-203334. $10.50 ($3.50 microfiche). All Medical Subject Headings are arranged in a hierarchical manner showing relationships between broader and narrower terms.

An Exhibit of Paintings and Drawings by May Lesser

The LA County Hospital—Through the Eyes of the Artist

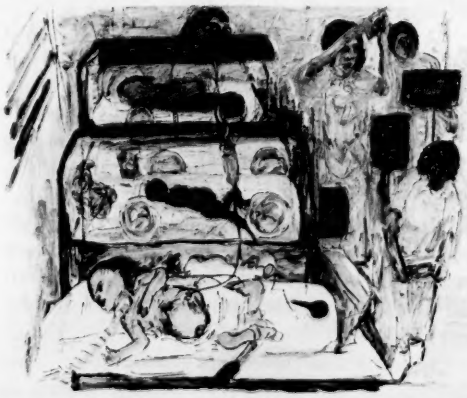
Operating Room [detail]

"These are stories and paintings about medical care for the poor at a large, metropolitan, publicly supported hospital and the impact it produced upon the patients, the medical and nursing staff, and upon myself." Thus artist May Lesser, who spent three years in the mid-seventies observing medical care at the Los Angeles County Hospital, describes her work now on display at the National Library of Medicine through January 23, 1981.

This is Mrs. Lesser's second exhibition at the Library. Ten years ago, NLM displayed a series of prints and drawings resulting from her experience auditing medical school with the class of 1971 at the UCLA Medical School. This resulted in a book, *The Art of Learning Medicine*, which details her experience in the four-year curriculum.

The present exhibition of some 35 selected paintings and drawings from a forthcoming book reflects the artist's sensitivity toward the effect of the overwhelming number of patients on the young, idealistic doctors at a crucial stage of their development. Their professional skills are increased but, in Mrs. Lesser's words, "their growth is slowed by frustration in dealing with so much social pathology and the community's attitude toward the poor and their physicians."

The "red-blanket" (critical) case in the Emergency Room, the intimate teaching conference in the corridor of the busy clinic, the air of death in the Intensive Care Unit, even the mountains of fresh linen waiting to be folded, all have meaning to the eye of the artist-author. In her words: "I had a hard time grasping the sheer immensity of this human institution and the work that goes on inside it. It is hard to get an overview and abstract its design, not only because of the cross-current of so many clinics, wards, and buildings, but also because of the



Premature infants in isolettes [Neonatal Unit]

"How could he get liquor at nursing home?"

human experiences which resonate with one's own strong feelings and emotions connected to birth, life, and dying. The sheer grind of long hours and the unending repetition of cases accurately present the setting of the large county hospital. Under these conditions the young physician gives quality medical care. What is it like to work in these conditions over many years? What is it like to become demoralized?"

May H . Lesser, the daughter, sister, wife, and mother of physicians, is unique in joining together her skill as an artist with her understanding of physicians. She is a graduate of the H. Sophie Newcomb College, Tulane University, with honors in drawing. She received a master's degree in painting from the University of Alabama and did graduate work at UCLA. She was granted the Tiffany Graphic Art Award and taught etching at the University of California, Irvine. Her etchings and drawings are in the permanent collection of a number of institutions including the Cleveland Museum of Art and the National Library of Medicine. Several of her color etchings have appeared on the cover of the *Journal of the American Medical Association.*

IM Centenary Essays Published

Centenary of Index Medicus: 1879-1979. Edited by **John B. Blake**. 1980. Casebound, vii, 115pp. Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Price: $7.00 ($8.75 foreign). Stock Number 017-052-00212-1.

In May 1979 the National Library of Medicine celebrated the centenary of *Index Medicus* with a two-day program at the Library (*News*, June 1979). The papers presented at the program were by a distinguished group of scholars—physicians, librarians, and historians—and were structured around two themes: "Medicine and Bibliography" and "The Physician and his Books." NLM Director **Martin M. Cummings, M.D.**, described these themes in his Foreword to the *Centenary of Index Medicus* in which these papers have been reprinted:

> The first part sets the background in medicine, publishing, and bibliography at the time *Index Medicus* was established, and describes the origin, vicissitudes, and growth of this now vigorous publication and related information systems. The second part emphasizes the role of individual physicians as bookmen—as creators, users, and supporters of books and libraries—in recognition of their contributions to a love for and an appreciation of the larger world of books and scholarship in the service of medicine.

Contents

PART I: MEDICINE AND BIBLIOGRAPHY

Between Two Worlds: American Medicine in 1879. *Charles E. Rosenberg*

The Nineteenth Century Medical Press. *Genevieve Miller*

Billings and Before: Nineteenth Century Medical Bibliography. *John B. Blake*

Index Medicus in the Twentieth Century. *Frank B. Rogers*

PART II: THE PHYSICIAN AND HIS BOOKS

Some Libraries I Have Known: The Care and Feeding of Readers and Books. *William B. Bean*

Medical Books in Colonial Philadelphia. *Edwin Wolf 2nd*

The Physician as Bibliograph and Bibliophile. *K. Garth Huston*

The Physician as Scholar. *Saul Jarcho*

RML Develops Service Kit

"The Librarian as a Service Professional: A Promotional Kit," has been produced by the Midwest Health Science Library Network (MHSLN). Development of the kit, which includes a booklet, slide/tape presentation, and descriptive brochure, was supported through an NLM Medical Library Resource Project Grant.

The kit was designed by MHSLN's Public Relations Committee chaired by **Jana Bradley**, Wishard Memorial Hospital, Indianapolis. Its purpose is to "assist library staff members in translating belief in service into service actions," according to **Ruby S. May**, Associate Director of the MHSLN Regional Medical Library.

The booklet (*A Sense of Service: A Librarian's Guide to Service-Oriented Action*) is being distributed without charge to MHSLN members. The slide/tape presentation (*The Librarian as an Information Service Professional*) is being sent to MHSLN Resource Libraries and consortia. Kits and booklets are also available for purchase. For further information, contact:

Management Office/MHSLN
Library of the Health Sciences
University of Illinois
at the Medical Center
1750 West Polk Street
Chicago, IL 60612

Phone: 312/996-2464

Asbestos in Air

The Federation of American Societies for Experimental Biology (FASEB) has announced the second publication in a series of bibliographies it is publishing under a special arrangement with the National Library of Medicine (*News*, March 1980).

Asbestos in Air—prepared by analysts at NLM's Toxicology Information Response Center (TIRC) in Oak Ridge, Tennessee—contains 193 abstracts covering 1964 to the present, with a permuted title index of all references. Sources searched include MEDLINE and BACKFILES, TOXLINE® and TOXBACK, the TIRC Library, and 16 selected DIALOG® files, including Biological Abstracts, Chemical Abstracts, and Excerpta Medica.

Asbestos in Air and the earlier bibliography on acid rain are available at the prices quoted below from FASEB's Special Publications Office, Room 401, 9650 Rockville Pike, Bethesda, MD 20014. (Remittance or institutional purchase order should accompany the order.)

Asbestos in Air. NLM/TIRC-80/2. A bibliography with abstracts, 1964-1980, by J.G. Pruett and S.G. Winslow, Oak Ridge National Laboratory. July 1980. Price: $7 (including postage and handling).

Health and Environmental Effects of Acid Rain. An Abstracted Literature Collection, 1966-1979, by N.S. Daily and S.G. Winslow, Oak Ridge National Laboratory, March 1980. Price $15.

OCCS Branch Chief Named

Bernard G. Silverstein, previously a supervisory computer specialist with the Health Care Financing Administration (HCFA) in Baltimore, has been appointed head of the MEDLARS Support Branch. This Branch, within NLM's Office of Computer and Communications Systems, manages the MEDLARS software system and the ELHILL data bases. Before joining the HCFA, Mr. Silverstein was employed by the Social and Rehabilitation Service, where he was Chief of the Application Support Branch within the Division of Data Processing.

Personnel Notes

Gains

- Joseph P. Mingioli, Audiovisual Production Officer, National Medical Audiovisual Center
- Terri L. Owens, Personnel Assistant, Office of Administration
- Betty J. Waters, Secretary, Office of Administration
- Helen E. Stassen, Clerk-typist, Technical Services Division
- Eli Rosenberg, Technical Information Specialist, Bibliographic Services Division
- Marie S. Merriam, Graphics Arts and Information Technician, National Medical Audiovisual Center
- J.P. Toothman, Training Specialist, National Medical Audiovisual Center
- Paula Jacobs, Secretary (typing), National Medical Audiovisual Center

Losses

- Luke Glover, Clerk, Bibliographic Services Division
- Laura Lineberry, Clerk-typist, Lister Hill Center

Publication Grant Program

The Library's Publication Grant Program provides limited financial support for the preparation and/or publication of biomedical works. Projects that require large-scale or long-term support (beyond a maximum of three years) are not appropriate for the program. Also, support is not provided for the publication of textbooks or other commercially viable products, curriculum materials, initial reporting of research findings, proceedings of meetings, or materials that would have only local interest.

Some of the recent publications resulting from NLM support under provisions of the Medical Library Assistance Act are listed below. *Note:* The National Library of Medicine does not distribute any of these publications; all correspondence regarding their distribution must be directed to the publishers.

Alexander, John T. *Bubonic Plague in Early Modern Russia.* Baltimore, Maryland: The Johns Hopkins University Press, 1980, 385 pp.

Baumel, Julian J., *et al.*, (eds.) *Nomina Anatomica Avium.* London: Academic Press, 1979, 637 pp.

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Shilling, Charles W. and Werts, Margaret F. *Physical Methods of Bubble Detection in Blood and Tissues: An Annotated Bibliography with Preliminary Analysis.* Bethesda, Maryland: Undersea Medical Society, Inc., 1979, 85 pp.

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Serial Gap List

NLM regularly solicits the help of the medical library community in filling gaps in our serial collections. If you can provide any of these items we would be most grateful. Please address them to:

National Library of Medicine
TSD-GAPS
Bethesda, Maryland 20209

American Journal of Gastroenterology 72: 3, 1979

Cardiovascular Medicine 4: 4, 9, 1979

Cardiovascular Nursing 1: 1, 1965; 2: 4, 1966; 4: 3, 1968; 6: 5, 1970; 7: 1, 6, 1971; 8: 1, 1972; 10: 3, 1974; 13: 1, 1977; 14: 4, 5, 1978; 15: 2, 5, 1979

Current Problems in Cardiology 2: 12, 1978; 3: 2, 7, 1978

Drug Therapy 1: 3, 1971; 9: 5, 1979

Drug Therapy. Hospital Edition. 3: 3, 4, 12, 1978; 4: 7-9, 1979

Gynecologic Oncology 7: 4, 1979

Hospital Forum 15: 1, 2, 1972; 16: 10, 1974; 20: 1, 3, 1977

Journal of the American Association of Nephrology Nurses, and Technicians 1: 2-4, 1974; 2: 1, 1975; 3: 4, 1976; 4: 1, 3, 4, 1977

Journal—American Health Care Association 3: 2-4, 1977; 5: 5, 1979

Journal—American Intra-Ocular Implant Society 1: 2, 3, 1975; 2: 2, 1976; 4: 4, 1978

Journal of Nutrition 109: 3, 1979

Pennsylvania Veterinarian 5: 1-4, 1963; 6: 1-4, 1964; 7: 1-4, 1965; 8: 1-4, 1966; 9: 1-4, 1967; 10: 1-4, 1968; 11: 1, 1969

Personality and Psychopathology 17: 1977

Perspectives on Human Evolution 1: 1968

Pharmaceutical Technology 1: 1-8, 1977; 2: 1, 1978

Physical Review D. Particles and Fields 9: 8, 10, 1974; 20: 5, 6, 1979

Phytochemistry 5: 9-12, 1966; 7: 11, 1968; 9: 9, 1970; 16: 11, 1977

Planning; Research Bulletin Nos. 1, 3, 1964

Progress through Bio-Medical Research 15: 1-3, 1968; 16: 2-4, 1969

Progress in Theoretical Biology Vols. 1-4: 1968-1971

Regional Anesthesia 1: 2-4, 1976; 2: 3-5, 1977; 3: 1, 1978; 4: 2, 1979

Teaching Exceptional Children 2: 1, 1969; 2: 3, 1970; 11: 3, 1979